difference between var, let, and const :

1. **let:** The let keyword declares a block-scoped local variable, optionally initializing it to a value.

Block-scoped means that the variable is only available within the block it was declared in, which is usually denoted by curly braces {}.

1. **var:** The var keyword declares a function-scoped or global variable, optionally initializing it to a value.

Function-scoped means that the variable is only available within the function it was declared in. Global variables are available throughout your entire code.

**3.const:** The const keyword declares a block-scoped, immutable constant variable, i.e. a variable that can’t be reassigned.

Constants are also called “immutable variables”, but that’s a bit of a misnomer since they are actually variables – just ones that can’t be reassigned.

\*\*Differences:

The var keyword is the oldest way of declaring variables in JavaScript and is supported by all browsers. The let and const keywords are newer additions to the language and are not supported by older browsers.

* var is function-scoped while let and const are block-scoped.
* var variables can be reassigned while let and const variables can not.
* var variables are declared using the var keyword while let and const variables are declared using the let and const keywords respectively.
* const variables are immutable while let and var variables are not.

- difference between 0, undefined, and null:

* 1. undefined means the variable has been declared, but its value has not been assigned.
  2. Null means an empty value or a blank value

3)  0 means the value itself is 0, This is the numerical value zero. It is considered falsy in JavaScript, which means it evaluates to false in a boolean context.

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|  | **Undefined** | **NULL** |
| **1.** | Undefined means a variable has been declared but has yet not been assigned a value. | Null is an assignment value. It can be assigned to a variable as a representation of no value. |
| **2.** | It is an ECMAScript1 (ES1) feature. | It is a Primitive value in Javascript |
| **3.** | Its supported browsers are -:  Chrome , Microsoft Edge , Internet Explorer , Firefox , Safari , Opera Mini | Its syntax is -:  **null** |
| **4.** | It is a global property. | Its supported browsers are -:  Chrome , Microsoft Edge , Internet Explorer , Firefox , Safari , Opera Mini |